## **IN THE CLAIMS:**

A complete listing of the claims is set forth below. Please amend the claims as follows:

- 1. (Cancelled).
- 2. (Cancelled).
- 3. (Cancelled).
- 4. (Cancelled).
- 5. (Cancelled).
- 6. (Cancelled).
- 7. (Cancelled).
- 8. (Cancelled).
- 9. (Cancelled).
- 10. (Cancelled).
- 11. (Cancelled).
- 12. (Cancelled).
- 13. (Cancelled).
- 14. (Cancelled).
- 15. (Cancelled).
- 16. (Cancelled).
- 17. (Cancelled).
- 18. (Cancelled).
- 19. (**Previously Presented**) A computer-implemented method for inventory management, the method performed using a computer system comprising one or more processing units and one or more memory units, the method comprising:

using the computer system, determining a cumulative demand value for each of a plurality of time windows within a first planning horizon, the cumulative demand value for a time window representing a cumulative demand for at least one product over the time window and all previous time windows in the first planning horizon;

using the computer system, determining a first forecasted production quantity

value for the first planning horizon using a first total forecasted demand value that

represents total demand for the product during the first planning horizon, the first

forecasted production quantity value representing an estimated quantity of the product

to be manufactured during each time window of the first planning horizon:

using the computer system, determining a cumulative production value for each

time window of the first planning horizon using the first forecasted production quantity

value, the cumulative production value for a time window representing a cumulative

quantity of the product that can be manufactured over the time window and all previous

time windows in the first planning horizon;

using the computer system, determining a first lean buffer stock value using the

cumulative demand values and the cumulative production values for the first planning

horizon, the first lean buffer stock value representing a quantity of the product to use as

a lean buffer stock for the first planning horizon;

using the computer system, determining a cumulative demand value for each of

a plurality of time windows within a second planning horizon preceding the first planning

horizon;

using the computer system, determining a second forecasted production quantity

value for the second planning horizon using the first lean buffer stock value and a

second total forecasted demand value that represents total demand for the product

during the second planning horizon;

using the computer system, determining a cumulative production value for each

time window of the second planning horizon using the second forecasted production

quantity value;

using the computer system, determining a second lean buffer stock value using

the cumulative demand values and the cumulative production values for the second

planning horizon, the second lean buffer stock value representing a quantity of the

product to use as a lean buffer stock for the second planning horizon; and

using the computer system, making the first and second lean buffer stock values

available for use in manufacturing the product.

Response to Office Action Attorney Docket No. 020431.0788 Serial No. 09/832,576 Page 3 20. (Previously Presented) Software for inventory management, the software

embodied in at least one computer-readable medium and, when executed on a

computer system comprising one or more processing units and one or more memory

units, operable to:

using the computer system, determine a cumulative demand value for each of a

plurality of time windows within a first planning horizon, the cumulative demand value

for a time window representing a cumulative demand for at least one product over the

time window and all previous time windows in the first planning horizon;

using the computer system, determine a first forecasted production quantity

value for the first planning horizon using a first total forecasted demand value that

represents total demand for the product during the first planning horizon, the first

forecasted production quantity value representing an estimated quantity of the product

to be manufactured during each time window of the first planning horizon;

using the computer system, determine a cumulative production value for each

time window of the first planning horizon using the first forecasted production quantity

value, the cumulative production value for a time window representing a cumulative

quantity of the product that can be manufactured over the time window and all previous

time windows in the first planning horizon;

using the computer system, determine a first lean buffer stock value using the

cumulative demand values and the cumulative production values for the first planning

horizon, the first lean buffer stock value representing a quantity of the product to use as

a lean buffer stock for the first planning horizon;

using the computer system, determine a cumulative demand value for each of a

plurality of time windows within a second planning horizon preceding the first planning

horizon;

using the computer system, determine a second forecasted production quantity

value for the second planning horizon using the first lean buffer stock value and a

second total forecasted demand value that represents total demand for the product

during the second planning horizon;

Response to Office Action Attorney Docket No. 020431.0788 Serial No. 09/832,576 using the computer system, determine a cumulative production value for each

time window of the second planning horizon using the second forecasted production

quantity value;

using the computer system, determine a second lean buffer stock value using the

cumulative demand values and the cumulative production values for the second

planning horizon, the second lean buffer stock value representing a quantity of the

product to use as a lean buffer stock for the second planning horizon; and

using the computer system, make the first and second lean buffer stock values

available for use in manufacturing the product.

21. (Previously Presented) A computer-implemented system for inventory

management, comprising:

computer memory containing:

a cumulative demand value for each of a plurality of time windows within a

first planning horizon, the cumulative demand value for a time window

representing a cumulative demand for at least one product over the time window

and all previous time windows in the first planning horizon; and

a cumulative demand value for each of a plurality of time windows within a

second planning horizon preceding the first planning horizon; and

one or more computer processors collectively operable to:

determine a first forecasted production quantity value for the first planning

horizon using a first total forecasted demand value that represents total demand

for the product during the first planning horizon, the first forecasted production

quantity value representing an estimated quantity of the product to be

manufactured during each time window of the first planning horizon;

determine a cumulative production value for each time window of the first

planning horizon using the first forecasted production quantity value, the

cumulative production value for a time window representing a cumulative quantity

of the product that can be manufactured over the time window and all previous

time windows in the first planning horizon;

determine a first lean buffer stock value using the cumulative demand values and the cumulative production values for the first planning horizon, the first lean buffer stock value representing a quantity of the product to use as a lean buffer stock for the first planning horizon;

determine a second forecasted production quantity value for the second planning horizon using the first lean buffer stock value and a second total forecasted demand value that represents total demand for the product during the second planning horizon;

determine a cumulative production value for each time window of the second planning horizon using the second forecasted production quantity value;

determine a second lean buffer stock value using the cumulative demand values and the cumulative production values for the second planning horizon, the second lean buffer stock value representing a quantity of the product to use as a lean buffer stock for the second planning horizon; and

make the first and second lean buffer stock values available for use in manufacturing the product.

- 22. (Cancelled).
- 23. (Cancelled).
- 24. (Cancelled).